

NOVEL PROTEIN KINASE MOLECULES AND USES THEREFOR**Abstract of the Disclosure**

The invention provides isolated nucleic acids molecules, designated CSAPK
5 nucleic acid molecules, which encode novel protein kinases. The invention also provides
antisense nucleic acid molecules, recombinant expression vectors containing CSAPK
nucleic acid molecules, host cells into which the expression vectors have been introduced,
and nonhuman transgenic animals in which a CSAPK gene has been introduced or
disrupted. The invention still further provides isolated CSAPK proteins, fusion proteins,
10 antigenic peptides and anti-CSAPK antibodies. Diagnostic, screening, and therapeutic
methods utilizing compositions of the invention are also provided.